

GELEST, INC.

11 East Steel Rd. Morrisville, PA 19067
Phone: (215) 547-1015

MATERIAL SAFETY
DATA SHEET

EMERGENCY TELEPHONE
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **GARNET-ALMANDINE - SIG5100.0**

CHEMICAL NAME: GARNET-ALMANDINE

SYNONYMS: MICROCLINE; ALMANDITE; GARNET SAND

CHEMICAL FAMILY: INORGANIC SILICATE

FORMULA: $Al_2Fe^{++}_3(SiO_4)_3$

HMIS CODES HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0

INGREDIENTS

IDENTITY	CAS NO.	%	TLV inhalable	OSHA PEL respirable
GARNET-ALMADINE	1302-62-1	>95	10mg/m ³	5mg/m ³
SILICA-QUARTZ	14808-60-7	<0.05		10mg/m ³

PHYSICAL DATA

Boiling Point: NA	Melting Point: 1250°C
Specific Gravity: 4.19	Vapor Pressure, 20°: <0.001mm
Vapor Density (air = 1): NA	Solubility in water: insoluble
% volatiles: 100	Evaporation rate: NA
Molecular Weight: NA	Particle Size: <150 microns
Appearance & Color: Reddish brown to black powder	

FIRE & EXPLOSION DATA

Flash Point, COC: none Autoignition Temp.: NA
Flammability Limits- LEL: NA UEL: NA

Extinguishing Media: Not combustible.

Special Fire Fighting Procedures: Avoid eye and skin contact. Do not breathe particulates.

Unusual Fire and Explosion Hazards: None

-1-(SIG5100.0)

ENVIRONMENTAL INFORMATION

Spill response: Sweep material, avoiding inhalation of particulates.

Recommended Disposal: Landfill. Follow all chemical pollution control regulations.

HEALTH HAZARD DATA

Eye Contact: Particulates may cause immediate or delayed eye irritation.

Skin contact: No adverse effects expected. May produce irritation. Prompt and thorough washing with soap and water will reduce or eliminate potential dermal effects.

Inhalation: Inhalation of particulates may irritate the respiratory tract. Overexposure may produce coughing, headache and nausea. Breathing silica dust may not cause noticeable injury or illness even though permanent lung damage may be occurring.

Oral Toxicity: not determined

Chronic Toxicity: There are no known chronic effects related to this compound.

SUGGESTED FIRST AID

EYES: In case of contact, immediately flush eyes with flowing water for at least 15 minutes. Get medical attention.

SKIN: Flush with water, then wash with soap and water.

INHALATION: Move exposed individual to fresh air. Call a physician.

INGESTION: Never give fluids or induce vomiting if patient is unconscious or having convulsions. Get medical attention.

REACTIVITY DATA

Stability: Stable.

Conditions to avoid: None determined

Incompatibility (materials to avoid): None determined

Hazardous decomposition products: None determined

SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Mechanical is recommended.

Respiratory Protection: If exposure exceeds TLV for particulates, a dust mask is required.

Eye and Face Protection: Safety glasses.

Other Clothing and Equipment: Rubber, neoprene or nitrile gloves. An eyewash and emergency shower should be available. Launder clothing before reuse.

OTHER PRECAUTIONS

For research and industrial use only.

Storage and Handling: Store in sealed containers.

TRANSPORTATION

DOT SHIPPING NAME: NOT REGULATED

DOT HAZARD CLASS: NOT REGULATED

DOT LABELS: NOT REQUIRED

DOT ID No: NOT REQUIRED

Prepared by safety and environmental affairs MSDS ISSUE DATE SIG5100.0: 11/13/14
SUPERSEDES: none

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-3-(SIG5100.0)

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